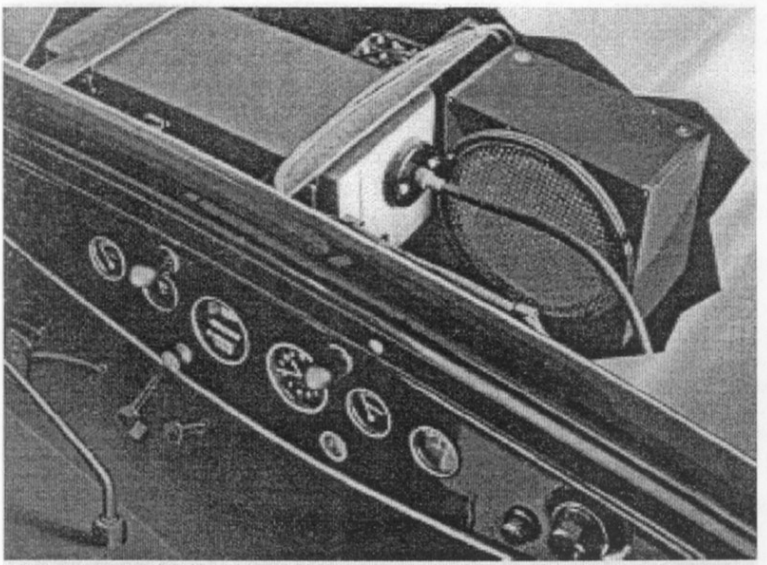
BULLETIN

Indiana Historical Radio Society

PRESERVATION FOR POSTERITY

Vol. 33 Fall 2004 No 3

1930 CADILLAC 353 CAR RADIO



More Information on Delco's Contribution to Car Radio Development-Inside!

Officers	Responsibilities
Terry Garl, President 54980 Dawn Drive Osceola, Indiana 46902 (574) 679-4280 e-mail: teg53oscin@aol.com	Activities, Business, Administration, & Publicity
Bill Morris, Vice President 3545 Rock Maple Drive Indianapolis, Indiana 46235 (317) 895-1334 e-mail: bmorris@mw.net	Sites and Dates of Meets
Fred Prohl, Treasurer 3129 Lanam Ridge Road Nashville, Indiana 47448 (812) 988-1761 e-mail: indianahistoricalradio@att.net	NOTE → Applications and Correspondence Dues, Financial, and Address Change. Please Notify Immediately of Change of Address.
Herman Gross, Secretary 1705 Gordon Dr. Kokomo, Indiana 46902 (765) 459-8308 e-mail: hw12x12ihrs@sbcglobal.net	
Edward Dupart, Editor 1441 N. Church St. – Cadiz New Castle, Indiana 47362-9172 (765) 533-6272 e-mail: edupart3@hrtc.net	News, Articles, Photos, Radio-Ads
Dr. Ed Taylor, Historian 245 North Oakland Avenue Indianapolis, Indiana 46201-3360 (317) 638-1641	Donations & Scrapbook Material
Fred Schultz 1246 Lincolnway South Ligonier, Indiana 46767 (260) 894-3092 e-mail: olradio@ligtel.com	IHRS Museum Curator

Bulletin Deadlines: News, Articles & Radio Ads, 2/15, 5/15, 8/15, 11/15

IHRS e-mail Web site address: www.indianahistoricalradio.org

The INDIANA HISTORICAL RADIO SOCIETY is a non-profit organization founded in 1971. Annual membership dues are $15.00/year or 2 years/$25.00, which includes the quarterly IHRS "BULLETIN." Radio-Ads are free to all members. Please include a S.A.S.E. when requesting information. Send applicatins for membership and renewals to Fred Prohl, our treasurer as noted above.

Fall Foliage Meet at Greenfield

October 9, 2004 – Saturday 8:00 AM
Meet at the Riley Park Shelter, Greenfield, Indiana. (One block north of US40 on Apple Street.) Registration is $5:00 per member/family. Indoor and outdoor setup space for Radio Swap & SellRegistration is $5:00 per member/family. Indoor and outdoor setup space for Radio Swap & Sell.

Indiana Historical Radio Society Meet Schedule 2005

IHRS Winter Meet – February 12, 2005

! ! ! ! A NEW LOCATION ! ! ! !

Hornet Park Community Center, Beech Grove

A Swap N Sell indoor meet - **7:00 am to 12 noon** (No Friday setup.)
Old Radio Equipment Contest categories:
1.Operating "Toy" crystal or diode Radios
(Boy's Radio, Germanium sets etc.) any vintage
2. 1920's table Battery Radio
The Hornet Park Community Center is three streets north of south-east I465 exit 62 (Emerson Avenue, Beech Grove) Travel north from I464 to Hornet Ave. Turn right at Hornet Ave – the Community Center is about two blocks east on the right. Meet contacts: Fred Prohl 812-988-1761 or Ed Taylor 317-638-1641

IHRS Spring Meet – May 7 & 8, 2005

The Johanning Civic Center, Kokomo
Friday May 7 - 4:00 pm to 8:00 pm
Saturday May 8 - 7:00 am to 2:00 pm

Other Club Activities

MSARC For information contact George Freeman ralogeum@aol.com

NARC ACTIVITIES - 2004
For NARC meet info contact: Jim Thompson, 612-822-4000 or Kip Wallace, 612-544-2547, KipWallace@dl-inc.com

ARCI ACTIVITIES - 2004
Most meets at Elgin, IL, Best Western, 345 River Rd. 847-695-5000.
Info: Art Bilski 630-739-1060, www.antique-radios.org

MICHIGAN ANTIQUE RADIO CLUB
Info: Oran Sauder murrellr@ameritech.net (248) 437-4413 John Reinicke – john.reinicke@fanucrobotics.com (248) 626-4895

Join the AWA-ANTIQUE WIRELESS ASSOCIATION
THE ORIGINAL AND LARGEST HISTORICAL RADIO-COLLECTOR GROUP The AWA publishes a quarterly Old Timer's Bulletin.
Membership is only $20 per year. Write to: Antique Wireless Association, Inc. Box E, Breesport, NY 14816 http://www.antiquewireless.org

2004 *IHRS* DUES

Please send a check payable to the ***Indiana Historical Radio Society*** in the amount of $15.00 for a one-year membership or $25.00 for a two-year membership.
Send your payment to: Fred Prohl, IHRS 3129 Lanam Ridge Road Nashville, IN 47448 Please include your current mailing address, if not on your check, and your email address, if you have one. Questions concerning your membership should be directed to Fred at fprohl@att.net or call him at 812-988-1761.

Financial Reports

IHRS Winter Meet - 2004

Meet Receipts		
	71 family registrations	$355.00
	27 tables	$270.00
	sale of donated items	$3.00
	total	$628.00
Meet Expenses		
	Holiday Inn	$609.50
	Insurance	$117.00
	Total	$726.50

$360.00 membership dues were paid on 2/14 IHRS account balance as of 2/21/04 = $5770 Submitted by Fred Prohl, IHRS Treasurer

IRS 2004 Elkhart Meet Financial Report

Receipts:	1. Registrations – total of 50 registration at $5.00 each =	$250.00
	2. Food and coffee donation can	$101.95
	3. 2 memberships 1 two year and 1 one year	$40.00
	4. Silent Auction and equipment donations	$26.15
	TOTAL	$418.10
Payables :	1. Pavillion rental for August 20, 2005	$130.00
	2. Food and supplies	$310.65
Donations remitted – monies received minus payables		$107.45
(minus membership monies given to the treasurer at meet)		- 40.00
	Total Remitted	$67.45

Submitted by Ty Gregory, Elkhart Meet Co-chairman

Elkhart IHRS Business Meeting Report

IHRS held a business meeting at the Elkhart Summer meet on September 11. The meeting was called to order by IHRS President Terry Garl at 12:35 pm. Treasurer's report – Fred Prohl: The Spring meet report was presented in the Summer IHRS Bulletin. Most recent expenses include the Summer Bulletin at $1208 and insurance at $493. Income in addition to dues renewal is a gift to IHRS from an IHRS member family in the amount of $1604. The current IHRS account balance is $5103.37.

Editor Ed Dupart reported the high Bulletin expense is due to the one time use of additional color photos. Ed expects the next Bulletin to be out the first week in October.

Indiana Historic Radio Museum curators Fred and Marcella Schultz reported that NBC has purchased a one hour prime time special on Low Power FM. Much of the production was filmed in Ligonier at the FM station and the museum. The special will be released to stations on September 26th. The air time was not known. Marcella Schultz was given an appreciative applause for her considerable effort in getting FCC licensing for the station.

New business: Fred Prohl reporting for Jim Thomas. We have two Founders Award trophies remaining. The original 13 IHRS members provided the initial cost of the Founders Award 14 years ago. In 2006 we will have used the last trophy purchased. Considering the reduction in numbers of the original founders, will IHRS consider providing assistance in continuing the award? Two possible ways of assisting:

1. Is there a woodworker in the Society who can make the walnut base and tower?
2. Consider a motion at a future meeting for IHRS to provide funds for the Founders Award trophy.

Announced: The IHRS Winter meet is scheduled for February 12, 2005 at the Hornet Park Community Center, Beech Grove (south-east Indianapolis). The IHRS Spring meet will be at the Johanning Civic Center in Kokomo on May 7 and 8, 2005.

Following a thanks to those who worked to provide a successful meet and a great lunch, the meeting was adjourned at 1:00 PM.

Respectfully submitted, Fred Prohl for
IHRS Secretary Herman Gross

Airline 62-230 2V Farm set wt g $15.00
Airline 64BR1808, wt no spkr p..... $5.00
Airo-master battery ser, nt g $12.50
Apex Model? w7t g $10.00
Arborphone 27 w 5 globe tubes, g $60.00
Arvin 8-Transistor AM, 61R58, works, g, ...$2.00
Arcadia parts set nt,,p, ...$5.00
AK 12C, rare, with tags, wt, ex $1300.00
AK 20 Big box, nt, vg, ...$12.50
AK 20 Big box, wt, vg, ...$27.50
AK 30 w5 globe t, vg, ...$40.00
AK 35 nt, w base plate, f, ...$7.50
AK 35 w globe t & base plate, f,..... $10.00
AK 37 w globe t, f,.....,$32.50
AK 40, nt, f, ...$10.00
AK 40 wt, f,.....$10.00
AK 40 wt, g,..... $30.00
AK 42 wt, f,.....$12.50
AK 44 wt, f,..... $20.00
AK 55 console, wt, p, ...$10.00
AK Type TA amp. g $50.00
AK "E" speaker, vg, wk, ...$25.00
AK "E-3" speaker, g, wk,.....$21.00
AK "E" speaker, g, wk, ...$20.00
AK "L" horn speaker, g, wk, ...$25.00
AK "L" horn spkr (2) broken, p, ...$10.00
AK "M" horn speaker, g, wk, ...$45.00
AK "Y" power supply, nt, p, ...$1.00
Audiola model?, nt, p, ...$15.00
Balkite A-6 "A" power supply, f, ...$7.00
Balkite trickle chargers (2), f, ... $27.50
Bendix model? Console wt, f, ...$15.00
Bremer Tully Counterphase wt, f,..... $40.00
Browning Drake 5-R, wt, g, ...$50.00
Brunswick 15 Uniselector, console wt, f, ...$17.50
Brunswick 5WO, wt & hood, g, ...$50.00
Crosley 51, wt, vg $65.00
Crosley 601 "Bandbox", wt, g,..... .$30.00
Crosley "Gemchest", wt, g, ...$30.00
Crosley "Showbox", nt, no knobs, p,..... $3.00
Crosley "Showbox", wt, f, ... $15.00
Crosley Dynacone "E" speaker, wk, g, ...$45.00
Crystal radio kit, g, ...$10.00
Crystal set, w/book cond. Homebrew, vg $25.00
Eico 623 tube tester, SN 23, g,..... $7.00
Elmenco dipped mica condensers w/case,..... $5.00
Eveready model 3 speaker, wk, f, ...$12.50

Fada "Neutrolette" 192A, nt, vg,..... $25.00
Fine Arts battery radio, w5globe tubes, g,..... $45.00
Freed Eisemann NR-6,, wt, p, ...$10.00
Freshman Masterpiece, nt, f, ...$12.50
Freshman Masterpiece, wt, with log, g, ...$40.00
Geppert "Kleer-Tone" tuner, f, ...$12.50
Geppert "Kleer-Tone" tuner, f, ...$20.00
Globe 10, 15-80 meter x'ceiver, f..... $12.50
Grebe synchrophase MU-1, wt, w/chains, g, ...$225.00
Green-Brown Co. battery elimiator, wt, g, ...$22.50
Guild Country Belle telephone radio, wt, vg,..... $15.00
Hammarlund HQ-120, w speaker, f, ...$70.00
Headphones (Box of 4), f, ...$50.00
Heathkit DX-100 transmitter, wt, f, ...$20.00
Home brew TRF"Twin variometer ckt", nt, vg, ...$65.00
Horn speaker, unknown brand, wk, f, ...$20.00
Intercoms, wt, f, ...$5.00
International "Kadette" wt, g, ...$17.50
Kennedy model?, console, wt, f, ...$70.00
Kingston Battery Eliminator, f, ...$12.50
Majestic AC Power unit, f, ...$4.00
Montgomery Ward W-2, w 299 tube, g, ...$80.00
National NC-97 with speaker, wt, f, ...$70.00
Neutrodyne, wt, g, ...$20.00
Nightengale, nt, g, ...$22.50
Nordmende, wt, f, $.....20.00
Northland Radio, wt, horn spkr, f, ...$60.00
Peerless, wt, f, ...$25.00
Peerless reproducer, wks, g, ...$17.50
Peerless floor cabinet$ spkr, g,..... $20.00
Peerless cathedral spkr, wks, vg, ...$30.00
Philco 40-120, wt, wks, f, ...$22.50
Philco 40-125, wt, f, ...$40.00
Philco 41-300, console, wt, f, ...$10.00
Philco 7050 Tube tester, with book, g, ...$17.50
Philco & GE parts sets, p, ...$4.00
Pilot lamp assortment, large box,..... $7.50
Precision 10-12 Tube tester, g, ...$15.00
Radiola 17, wt, no hood, f, ...$12.50
Radiola 18, wt, not hood, g, ...$20.00
Radiola 44 Model AR-594, nt, f,..... $20.00
Radiola 102 speaker, f,..... $5.00
RCA 100 Speaker, wks, f,..... $20.00
RCA 100A Speaker, wks, f $7.50
RCA 100A Speaker, wks, f, ...$10.00
RCA model?, console, wt, f,..... $22.50
RCA UZ-1325 horn speaker, wks, f, ...$55.00
RCA Victor 97T, wt, f, ...$15.00
RCA Victor 7M6A, wt, f,..... $15.00

RCA WO-33A Oscilloscope, f,..... $5.00
Regency 212 Ham X'cvr, p $2.00
SBE 34 Ham X'cvr, wt, f,..... $7.50
Silvertone 6152 console, wt, f, ...$15.00
Silvertone 6356 farm set, wt, g,..... $10.00
Silvertone 7226 "Wayfarer" portable, wt, vg,.... $25.00
Silvertone cathedral, wt, f,.....$22.50
Silvertone WLS Speaker, Inop. $25.00
Spark coils, various brands, (3) f, ...$30.00
Sparton 121 AM/FM with orig. paper, p....., $5.00
Sparton model(?), console, wt, f, ...$25.00
Speaker, unknown make, g,.....,$17.50
Speaker, unknown make, works, g, ...,$22.50
Speco Signal Tracer, with eye tube, f..... $10.00
Steinite 991(?), w/horn spkr, wt (199's), g,....., $70.00
Stewart Warner 705, wt, vg, ... $30.00
Sterling R-510, tube tester & reactivator, f, ...$15.00
Temple speaker, works, f, ...$5.00
Thermodyne TF6, wt, g, works, ...$55.00
Thorola horn speaker, broken,..... $10.00
4 tube TRF, unknown make, wt, vg, ...$37.50
TRF kit, wt, manual, vg $35.00
Triplett tube tester, vg,..... $100.00
Tubes, Most NIB, OS, (40) $17.50
Tubes, Most NIB. OS, (40) $30.00
Tubes, Most NIB. OS, (40) $17.50
Tubes, Most octal & miniature, (100s) $7.50
Tubes, many 4, 5 & 6 pin, (100's) $40.00
Tubes, 4, 5, 6 Pin only, globe, (36) $42.50
Vesta Trickle charger, f, ...$20.00
Western Electric Speaker, cone torn, works $60.00
Westinghouse WR-209, wt, f, ...$12.50
Westinghouse WR-10, wt, inop, g $65.00
Weston 155 AC Ammeter, 0 – 100 Amps, f,.....$10.00
Weston 433 AC Ammeter, 0 - 5 AMPS, f, ... $5.00
Wooden horn speaker, homebrew? p,.....$5.00
Zenith "Consol-tone", wt, f, ...$15.00

"The Revolution in Your Pocket"

"Fifty years ago a transistor radio called the TR1 started the remaking of the world by semiconductors."

An excellent article on the Regency TR1 – Written by Robert J. Simcoe and published in the Fall 2004 issue of **Invention & Technology**.

DELCO RADIO HISTORY LEADING TO KOKOMO INDIANA

by Joseph A. Scott

In about the year 1928 the idea of auto radio at GM started with a group of men at Delco-Remy in Anderson Indiana. They saw an early auto radio industry developing and they decided to design & make their own personal auto radios. They produced radios that worked for their own cars & subsequently convinced management, Mr. Fred Kroeger the General Manager of Delco-Remy, that producing auto radios commercially would be a good field to embrace. Mr. Kroeger approached the Cadillac division to confirm interest in auto radio and they were interested. Work began at Delco-Remy Anderson on an auto radio. Mr. Gus Riggs was a student engineer working at Delco-Remy in Anderson in 1929, reported that radio work was taking place on the third floor of building one, but it was off limits for general access. This first Delco-Remy radio was introduced in September 1929 for the exclusive use by Cadillac division. This radio was designed by a young engineer named Dean Perkins and was produced in Anderson Indiana.

At about the same time, 1929, Day-Fan in Dayton Ohio was producing home radios, oscillating fans & other electrical devices. Day-Fan's president & substantial stockholder, Charles Kettering, convinced management at GM to buy Day-Fan, as the company was losing $200,000 per year. Actually Day-Fan did have patent licenses from RCA that were valuable for GM to produce quality radios. This acquisition of Day-Fan lead to subsequent talks between GM & RCA in extending the RCA licenses of the Day-Fan co. to the new owners. Talks progressed and the result was the formation of General Motors Radio Corporation, GMRC, in October 1929. GMRC would be 51% owned by GM & 49 % owned by the radio group: RCA, GE & Westinghouse. GE & Westinghouse were part owners in the RCA patents. Engineers were brought in from Westinghouse, RCA & GE to the GMRC Dayton plant. Day-Fan home radio production continued at the now GMRC plant which soon would produce radios branded General Motors Radio. The new general manager was Roger Emmert from Delco-Remy. The GMRC home radios were now produced by eight production lines, each to produce 300 high quality home radios per day. Each GM radio dealer was to provide a plush sales area & they would handle the GM radio exclusively, this proved to be bad for business. In the latter part of 1931 GMRC found itself with warehouses full of unsold home radios.

The Delco-Remy auto radio produced in Anderson introduced in the September 21, 1929 issue of Automobile Topics was a $150 dollar option for the 1930 Cadillac & La Salle cars. This auto radio would be continued to be produced in Anderson until about the end of 1929, thereafter it would be produced in Dayton Ohio under the Delco Radio Corporation, an operating company of the GMRC.

Ray Ellis was the new Delco Radio corp. sales manager in Dayton. It was thought that experienced radio production staff & facilities in Dayton would be better serve the Delco radio product. The home radio sales would be handled separately by GMRC. In February 1930 United Motors Service took over the sales & service of the Delco Automobile radio. From this point on the radio was sold to anyone through United Motors dealers and not just to Cadillac division. United Motors Dealers sold Delco batteries, starting lighting & ignition systems and lovejoy shock absorbers and now Delco Radios. They had a vast dealer network across the country. Later in 1930 Delco Radio Corp. would also produce & market a police receiver based on the Delco Automotive radio. Through United Motors Service in 1930 the Delco automobile police receivers were sold to the state of Michigan, one for each county with installations. The Delco auto radio was to be quickly out dated in technology as it was a TRF with 'B' & 'C' batteries with ganged variometer tuning. In 1931 a second Delco radio was introduced which was a superhetrodyne with the new 6 volt tubes to give greater performance, however is was too late to boost sales as the economy was worsening, auto radio sales were slow.

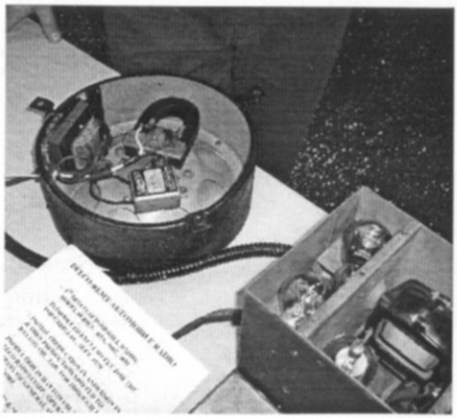
With the state of the economy & the lack of radio sales, both auto & home, the GMRC agreement was canceled in Sept. 1932. The venture reportedly lost over 8 million dollars.

Shortly thereafter Ray Ellis convinced the General Manager of United Motors Service, Mr. F. Oberhue, that marketing of auto radios through the United Motors Service, UMS, dealers would still be profitable. A specifier group was formed headed by Ray Ellis with experienced men from the GMRC in Dayton & others. In this arrangement other companies would produce the United Motors radios both home & auto to United Motors specifications. The auto radios would be sold also to the car divisions. Chevrolet, Buick, Oldsmobile & Pontiac bought the radios as dealer installed options. Ray Ellis & managers would have offices in the Detroit GM building & the staff were located in the GM research building, which later became GM radio Lab. Crosley, United States Radio & Television and Colonial made these radios. The specifier group kept up with industry developments & established radio specifications & checked quality.

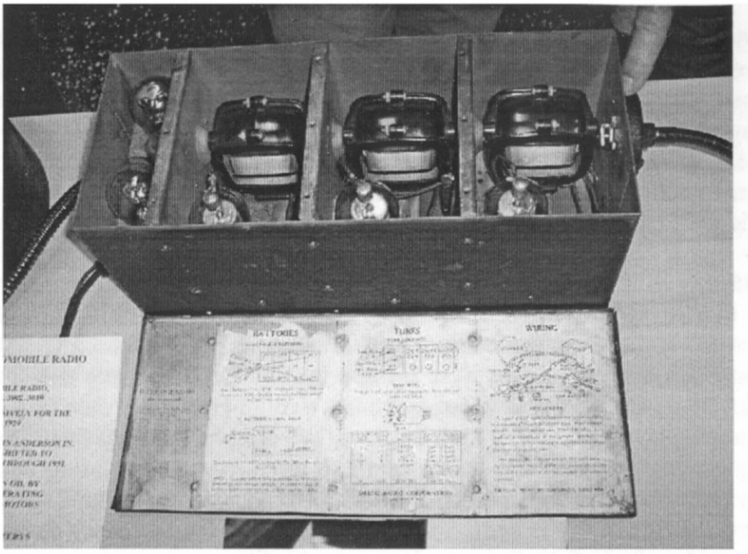
As time went by, the relationship between United Motors Service & the divisions was strained, 1935, so the specifier group split off from United Motors & became GM Radio Laboratory. In order to better market radios to the divisions for resale but maintain the marketing to United Motors. Business continued in this manor successfully. Crosley in Cincinnati was producing home & auto radios for UMS. The Chevrolet radio was produced by Crosley for several years. Crosley, in 1934, expecting new business from GM & started looking for additional manufacturing facilities & acquired the Haynes body plant practically gratis with the understanding of using mostly Kokomo

employees. Kokomo had been hit very hard by the depression & city leaders were very instrumental in the "practically gratis" acquisition of the empty Haynes plant. Later in 1935, when threatened with a strike in Cincinnati, Crosley moved the Chevrolet radio lines to the Kokomo plant on South Home avenue. During the night trucks were loaded with material & components for the Kokomo plant. Auto radios for Chevrolet & other divisions were also being built by Colonial Radio in Buffalo, NY.

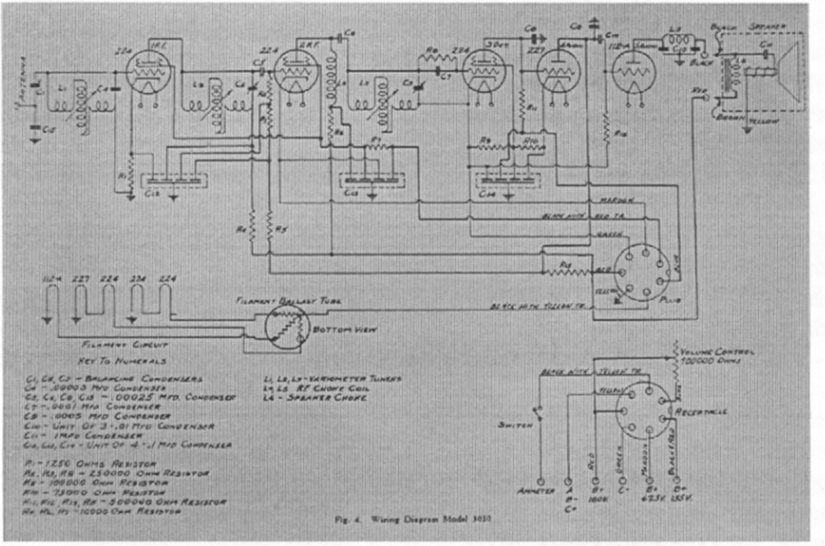
In 1935 Ray Ellis assembled a market study on the feasibility of manufacturing radios by GM again. The idea was approved for return to radio manufacturing. GM looked at the Crosley Kokomo sight & also the U. S. Radio & Television plant in Marion. Home radios were being produced for GM at this time at U S Radio. Financially the Crosley Kokomo plant was a much better deal for GM as the Marion plant had a very high price tag. Crosley apparently had seen the writing on the wall, GM was going back into the radio manufacturing business so they decided to sell the Kokomo plant to GM. At this time Mr. Ellis began to add key individuals to the staff. Some Crosley employees stayed on to become Delco employees. U S Radio agreed to assist in the start up period & some of their employees came to work at Kokomo. U S radio then stopped making auto radios and concentrated on home radios for GM. This new Delco Radio plant would be under the wing of Delco-Remy division Anderson, Indiana. On May 1, 1936 the Crosley Kokomo plant was purchased by GM. Production was assumed from Crosley on June 1, 1936 with the understanding that 15,000 radios for the 1937 Chevrolet would need to be built & delivered to the Chevrolet division by September 12, 1936. The deadline was met after overcoming many start up obstacles. Delco was again in the radio manufacturing business.



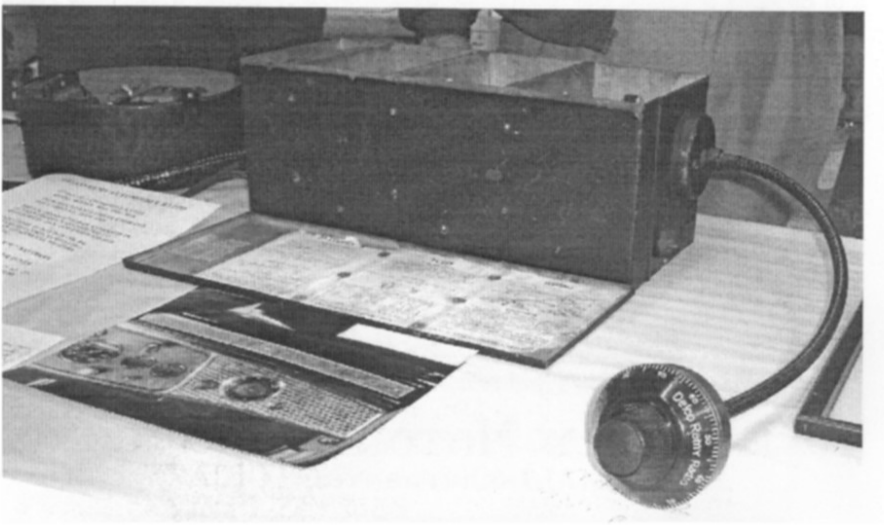
Inside view of the speaker. Note the horse shoe magnet, which meant not much bass or volume.



Interior view of Joe Scott's 1930 Delco Cadillac car radio



Schematic of Joe Scott's 1930 Delco Cadillac car radio



Two more views of Joe Scott's 1930 Delco Cadillac car radio

SELL THE LEADER

in this new and profitable field!

RIGHT NOW you should get your share of the business in the new and profitable automotive radio field, for inquiries and orders are pouring in every day! RIGHT NOW you should be lined up to sell the leader—the radio that bears the famous Delco name!

Delco Automotive Radio is powerful, selective, full-toned. It provides perfected one-dial tuning, automatic volume control, amazing freedom from outside interference and performance comparable to the finest household sets.

Delco Automotive Radio is distributed to the trade exclusively through United Motors Service. There's a BIG MARGIN OF PROFIT for dealers who handle it. Write the nearest United Motors branch for details—today!

UNITED MOTORS SERVICE

INCORPORATED

ATLANTA	DALLAS	LOS ANGELES	OAKLAND
BOSTON	DENVER	MEMPHIS	OMAHA
BUFFALO	DES MOINES	MILWAUKEE	PHILADELPHIA
CHICAGO	DETROIT	MINNEAPOLIS	PITTSBURGH
CINCINNATI	INDIANAPOLIS	NEW ORLEANS	RICHMOND
CLEVELAND	KANSAS CITY	NEW YORK	SAN FRANCISCO

SEATTLE ST. LOUIS TORONTO

AUTOMOTIVE MERCHANDISING for JULY 1930

THIS WOULD BE the first known Delco radio ad, published in AUTOMOTIVE MERCHANDISING, July, 1930.

CAUTION TO SALESMEN

The salesman selling a car equipped with radio or radio for installation in a car must be familiar with the limitations of a radio set in a car and must not lead the purchaser to expect performance which it is impossible for a set to deliver.

In the first place, a radio in a car is limited as to aerial. Only a certain length of aerial can be placed in the top of a car—simply adding to the amount of wire does not increase the ability of the aerial to pick up signals. Furthermore, an aerial in a car cannot be grounded to the earth as is always done with a stationary aerial.

Because of these two facts, the range of reception must necessarily be less than that of a house set, which is not limited as to length of aerial and which is grounded to the earth. No definite distance can be given for the range of reception.

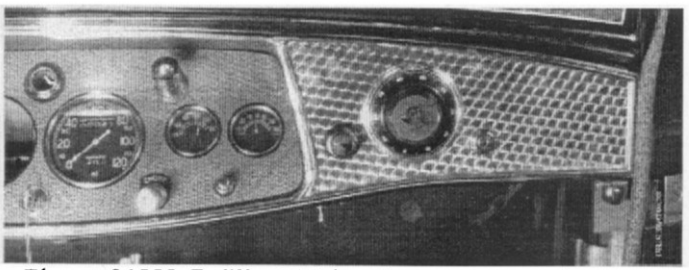
The distance depends entirely upon the power of the station broadcasting and the location of the car with respect to natural barriers such as "pockets" or "dead spots,' etc.

Radio in a car is further complicated by interference from the other circuits in the car, principally the ignition. Although noise from this source is reduced to a minimum by shielding, special resistances. condensers, etc., the same freedom from external noises cannot be expected under such conditions as with a house set.

Reception is also influenced by the fact that a moving car is constantly changing its location and direction. The distance between the car and the broadcasting station is constantly changing and the strength of the signals is correspondingly increasing or decreasing. The car may move into or out of "pockets" or "dead spots." Reception may be temporarily affected by structures which have a general shielding effect such as steel buildings, bridges, tunnels, etc., or by sources of unusual interference such as street car lines, substations, high-tension transmission lines, etc.

In order that the purchaser may be satisfied with the performance of his set after he gets it, these limitations must be explained to him by the salesman.

ABOVE CAUTION EXCERPTED FROM 1930 CADILLAC RADIO INSTALLATION MANUAL



Factory Photo of 1930 Cadillac V-16 Radio Controls on the Right Side

Restoring a Zenith 6S27 Black Dial Radio

By Louis Moses

I recently purchased a Zenith 6S27 at the radio meet in Lansing. Of course, I could not leave it alone when we returned home. The cabinet was decent but the chassis showed signs of either being in high humidity or in water for a brief period. It was greasy, grimy and rusty when I removed it from the cabinet. I was told it played, but we know what that might mean, so, I brought it up slowly on the variac and it began to play....sort of. I was pleased to see that it was a black dial with three color ribbons on the backside. The coloration did not extend very far out from the dial bulbs, so I resolved to look into that aspect thinking the grime all over the chassis might also be playing a role in the somewhat minimal colored lighting on the dial. This was my first experience with a large black face dial. I had always thought that the dial was made of some sort of paper stiff enough to carry the numbers and all the other neat things Zenith put on the dial, but also thin enough to allow the back lighting to come through. To my dismay, I soon found out that my ideas of the composition of the dial face were all wrong.

I began pulling out the flat headed fasteners (6) around the rim of the dial which hold it in place in front of the round housing where the two pilot lights reside. This is after I removed the sweep second hand and the two ended Zenith pointer hands. All went well until I got clumsy with the fingers and managed to create a crack which was not there before. Now I realized I did not have some sort of card stock in my hands, but I did have some sort of brittle plastic instead. The back side was carefully cleaned and a fair amount of dirt did wipe off. Two pilot bulbs were there, burning brightly as Zenith intended. It should be noted that the inside of the housing is factory painted a muted cream color. It was an altogether lacking surface for conducting brightness from the bulbs. Next step was to see if the colors, red, green and yellow, could be made to become brighter as the dial numbers moved away from the bulbs. The dial on this radio is 6 and 3/4 inches. We cut a piece of aluminum foil and tacked it with the shiny side out to the interior back of the dial housing. The lighting improvement exceeded all hopes. The next step was to fasten the same foil to the interior rim of the dial housing. This improved the brightness and coloration even more.

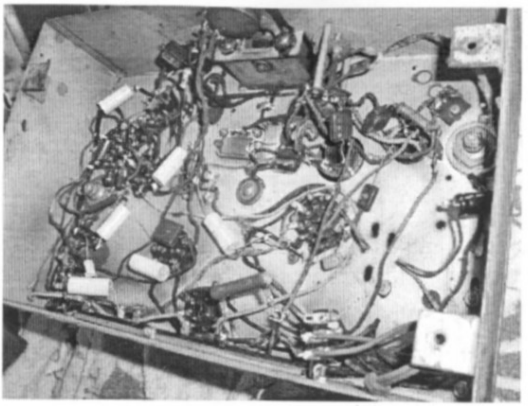
Now this gets ugly. The dial had very obvious warps which were bad enough to interfere with the sweep second hand as it rotated. Now the genius decided he would try to do some reverse bends in order to flatten the dial. Biggg mistake. The dial immediately broke into four parts yet held together loosely because the cracks did not extend all the way from center to edge. Now we got a mess! After the weeping was over we began thinking what could we do to at least put the injured dial back in place in a way it would not interfere with the sweep second hand and also not fall apart. The one good thought now came forward. I

had some 1/16 sheets of Lucite on hand. This material is translucent and accepts most adhesives. A circle the size of the dial minus 1/4 inset on the circumference was carefully scribed on the Lucite. Then the Lucite was trimmed very slowly and tediously using the small Lucite cutting knife which is available at Menards and probably Lowes also. The best way to describe this cutting process because it is round is to think of a nibbler tool along the lines of a chassis nibbler. With the round cuts now done the next job is to do drill a hole in the center of the Lucite to allow the shafts to come through for mounting the pointers. I do this using five or six drill bits beginning with the smallest and ending with the bit which makes the hole large enough to accommodate the shaft.

Now, lay the black dial face down on a clean sheet of glass or Lucite, or something similar, to that. Very carefully pull any broken pieces into the position they belong as a part of the whole. Do not attempt to push down any of the high areas. Rubber cement will adhere to the back side of the dial and it will also adhere to the Lucite which will now be uniformly pressed down on the back side of the dial. Take care when you apply the rubber cement to the Lucite. The adhesive needs to be spread uniformly on the Lucite and close to where any cracks might be. However, try to leave a bit of room near any cracks so that the glue does not push up through the cracks and get on the outer surface of the dial. Use only brand spanking new cement because it has a thinner viscosity than older cement which has had exposure to air. Thus it is more workable and you can regulate the flow on to the Lucite better. Better to go a bit less than more with the glue. Now the moment of truth has arrived. By now you should have the ducks in a row with regard to the cracks and etc. with the dial. While standing directly over the dial, gently lower the Lucite down to the back side of the dial. You have only one chance at this so you have to make it a good one. Keeping one hand gently pressed on the Lucite, you now can place your Riders Vol III on the Lucite. Now go to bed and by morning you have your dial fixed at least good enough to put the chassis back in the cabinet and any light shining through the cracks will be minimal and good enough to hold until you get lucky and find an unbroken black dial.

Top view of the
6S27 Zenith Chassis.

Bottom view of
the 6S27 Chassis.



These are very pretty dials when lit up at night.

Editor's note:

Another approach, if you have a computer and a good scanner is to scan a bad dial and using Paint Shop or similar program, repair the defects and then print out the new dial on a transparency and mount that to thicker plastic. Also, don't wash mid 30's RCA plastic dials with water as the printing will dissolve. This can be very frustrating. The print on some glass dials can come off by just touching the dial print. In fact, you need to be very careful in cleaning any dials.
Ed Dupart

IHRS Museum Notes

Marcella sent us this letter that appeared in the Ligonier Advance-Leader Newspaper on September 16, 2004.

Texans had a great time at Ligonier radio museum

Editor's Note: The following letter was sent to Bob Ball of Ligonier, a volunteer at the Indiana Historic Radio Museum in Ligonier. He forwarded it to the Advance-Leader.

Dear Mr. Ball,
Hello from Texas!

My wife, sister, and I visited with you at the Ligonier Historic Radio Museum on July 9, 2004. We are from Dallas, Texas. I called a friend from the museum and told him some things about the old radios and equipment. We really had a good time in the "old place". Lots of memories returned.

We took your advice and drove to Topeka and Emma on our way to Shipshewana. It was a pleasant side trip; even stopped at a garage sale. Also met a saleslady in Shipshewana who lived just south of the Emma Lake. I could say I knew where she lived.

The next day, Saturday the 10th, I left my wife and sister in Shipshewana to shop. I drove back to the museum and spent another hour looking at the equipment and listening to Helen Wolfe. She gave me a grand tour telling me lots of facts and stories. After returning home I shared my experience with several friends including the man I called from Ligonier. He now wants to visit the Indiana Historic Radio Museum.

One of our neighbors, originally from Cleveland, Ohio, is a radio station manager and early morning broadcaster for many years here in Dallas. He had not heard of Indiana's radio museum. He is very interested in visiting your town and museum the next time he "goes home.".

Thank you for your time and for our wonderful time with you and Ms. (Helen) Wolfe. Please share with her our pleasure in visiting Ligonier.

Enclosed is one of our Texas state quarter for you and for Helen. Also, enclosed is a small check for the Indiana Historic Radio Museum. Please see that it gets to the right place.

Thanks again.

Bob Linenschmidt
Dallas, Texas

Dave's Service Bench

Dave Mantor merrijoy@comteck.com

To start off, I'd like to thank those of you who have emailed me about my "Carl and Jerry" article in the last issue of ***The Bulletin.*** I enjoyed writing it, and I hope as each of you read the article, you could see how much I love John T. Frye's writings. I hope to include an update at some future time, so if any of you have any details to add to the "C and J" saga or about Mr. Frye, please write. I'd like to hear from you.

I'll also preview a "Carl and Jerry" article that was written just several years ago, not by Frye obviously, but by another Frye-fan, Jack Ward. In my opinion, he captured much of Frye's style and content, and I have reread it countless times as well. Nice job, Jack.

~

Twelve or thirteen years ago, with the encouragement of Marilyn Johnson, I wrote an article within these pages about one of my particular acquisitions. It was a Central-Electronics 10-B exciter that was built by Wes Shaum in his basement in Chicago. Typical of many of the early U.S. radio companies, everything about C-E's manufacturing practices was simple. Materials were stored in his neighbors' garages, many of the parts were of military origin and it was built with sometimes exacting details, sometimes not. Suffice it to say, however, my 10-B moved on to new surroundings, and with a new eye for military-like construction in radio gear, my collective attention turned to surplus military radio gear.

Military radio receivers and transmitters were not foreign to my operating table. A little ARC-5 40-meter transmitter had graced my ham shack for a short while. I tried everything I knew to get an aircraft receiver and transmitter working during another time period. (Sad to say I did not succeed) Though I moved on to various commercial sets, the love of Army and Navy surplus radios stayed with me. The gray and crinkle-black sets with very accurately built tuning capacitors and beautifully glowing tubes gave me a vision that has not been forgotten.

As I mentioned awhile back here in "Dave's Service Bench," I made a fast trip to procure some equipment from a military collector/operator in the Detroit area. I usually like to plan, but this was a last minute decision. After getting my wife's blessing, I headed out very early one Saturday morning with the intended Detroit destination and to be back home again all in the same day. These types of trips, of which many of you have also made, I'm sure, leave the body very road weary, but they can have some very satisfying results. Such was the case on this day as the van was literally packed to the roof for the return home, and I made it with nothing more than a case of the too-much-caffeine-jitters.

My load included a 6-foot high roller cabinet for mounted receivers and transmitters. Several boxes of old tubes were included as well as countless quantities of spare parts. A BC-342 receiver and several pieces of test equipment were loaded. For me, however, the pinnacle of the trip was the two Hammarlund receivers and their companion power supplies that were finally loaded into our van. The military version of the popular "Super Pro" Hammarlund receiver is the BC-779. These radios are well built, they are exciting to fire up and they are very heavy! There were two of these units in my load coming home from Detroit; one Super Pro and one BC-779.

The Super Pro/BC-779 was a ground-based 18-tube receiver that was used in military installations all over the world. With receiver and power supply, they weighed in at over 120 pounds and served other nations as well as the United States. There were generally six or seven of these receivers ganged in racks for multiple use. Some were gray while others were the traditional military black. The corresponding manual for each receiver is the Army-issued *TM11-866. With 2 RF stages and 3 IF stages and coverage of 0.1-o.4 and 2.5-20 Mhz, this particular Hammarlund edition made for very reliable communications. Pricing comparisons between 1940 and now would place this receiver in the $4-5000 range for 2004. Quite pricey but well worth the investment for the United States' communication efforts during World War II as well as in peacetime.

Is a military radio a collectible item? As in any other discussion of values, there are always the exceptions to the rule. But generally, collecting military radios can be a very satisfying diversion to the Crosby, crystal and the Atwater-Kent sets. Some collectors like to own sets that were in use when they were in the service. Others join together their collections of military radios along with their military vehicle collections. Some like them box-stock; others don't mind a few modifications. Recently, I sold and shipped a military version of a panoramic adaptor to a collector in Italy. In this case, however, the shipping was more than the price of the gear. Finally, the collectibility of WW II, Korean and Viet Nam sets can give the collector an added dimension to those who served as well as renewed faith in our country's efforts to maintain freedom.

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The company I am presently working for recently purchased the old Myers Radio Supply building in Marion. The store was empty when we went into it for the first time. However, it has been a trip backwards into time walking through the old radio supply location that countless people in the Marion-area remember and to imagine what stories could probably be told.

With a bit of fast and persuasive talking, I was given the old hanging Sylvania sign that graced the front façade for many years. I'm hoping to restore it to its original shape, albeit the name may be changed from Myers to Mantor. Then

with a bit of pomp, I hope to have it up it with new lighting and a position to hang where everyone will be able to see it. You can take a visual walk through the old Myers store on my website by going online to http://radio_papers.tripod.com/cj/id9.html. (The space between "radio" and "papers" is an underscore.) Enjoy!

A privilege it is to have the memories of the old radio supply store where one could go in and browse the shelves and see various new radio products sitting there awaiting new ownership. What a resource we had! Keep a good thought, give a smile and help someone have a great day.
Dave Mantor merrijoy@comteck.com

Super Pro/BC-779

The old hanging Sylvania sign that graced the front façade for many years

SAGA OF THE "SPICE CHEST RADIO"

By: Herman Gross

No, this isn't about the Guild Spice Chest radio with which many of us are so familiar. This spice chest radio was hand made by me in the year 1960. Long before I'd ever heard of a commercial radio of this sort. Here's how it came about.

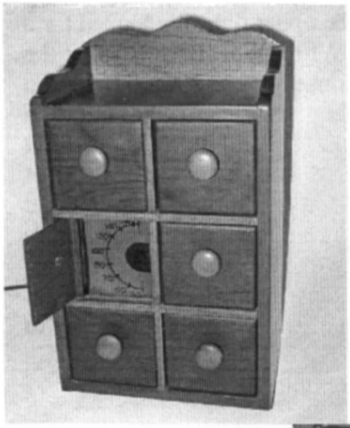
It was "a dark and stormy night" in the Fall of 1959. My wife Shirley, 2 yr old son Bill, and I were living in an upper flat on 46th street in Milwaukee near the Washington Park zoo. We had visited Shirley's parents in Brookfield, WI and before we left for home they asked if I would fix their radio. Of course I said "yes". It was a Motorola table radio, model 5X13U. That evening we parked the car in the street in front of our flat because we weren't allowed to use the driveway. Each night we alternated parking on the east and west side of the road....a city ordinance. Anyway, as I took the radio out of the back seat of the car and put it under my left arm I unwittingly closed the door on the power cord trailing behind. As I walked away, you guessed it, the radio was jerked from under my arm and went smashing to the concrete pavement. To my horror the brittle Bakelite cabinet shattered. What to do? I couldn't confess to my in-laws. I went to the local Motorola distributor and was told they couldn't order me a replacement cabinet. I set the radio aside. Fortunately the in-laws didn't ask about the radio right away.

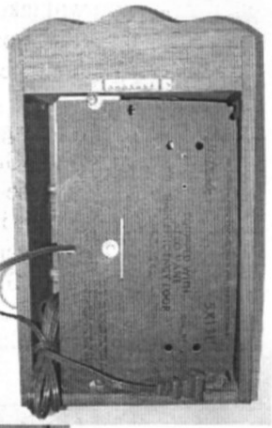
We lived at the 46th street location for a year or so and had to move because the owner was getting married and wanted to live in the upper flat. We looked for a house and finally found a new one in Waukesha, WI on West End Road, at the end of EASY Street no less. We moved in that house in June 1960. The radio came with us. Sometime after settling in the new house the question came...."when do you think you can return our radio"? I still didn't confess but I knew I'd better do something quick. I didn't have much time for this sort of thing since I was working full time for General Motors in Oak Creek, WI and going to Marquette University in the evenings working towards an engineering degree. Still, I had to make time. Shirley's mother liked "country" and antique things so I struck upon an idea to design a cabinet that she might like and would fit in her home decor. I settled on the spice chest. I had virtually no money to buy good wood and don't recall at this time where I got it but I used some thin plywood, a thin piece of oak and some 1/2" pine or poplar.

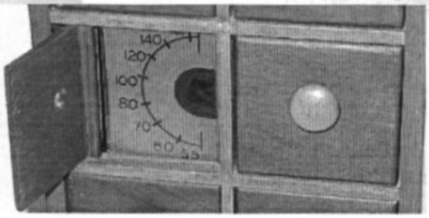
I had very few tools and used a coping saw to cut the wood. I used a hammer and single edged razor blade to cut the accurate joints on the thin front pieces that outline the fake "spice" drawers. Son Bill says he vividly remembers me doing that, even at his young age! The "drawers" are stationary except for the middle one on the left that opens to reveal the home-made dial scale and pointer. The dial scale is made from a piece of Mylar on which I drew the dial scale with

India ink, just as I did when I made mechanical drawings at work. The dial pointer is a neon bulb painted red with a thin line scraped off to make a fairly bright light to shine through the Mylar dial face. I don't think LEDs were available at the time. Unfortunately the Mylar diffuses the light more than I liked, but that's the best I could do at the time. The tuning control was relocated with a bracket fastened to the chassis so that it fit the proper location which is the center of the lower left-hand "spice drawer". The volume control/power switch is located in the center of the lower right-hand "spice drawer" for symmetry. The chassis is mounted vertically. A small amount of space has been left around the perimeter of the drawer fronts for sound transmission and ventilation for the tubes. The back is open. The wood is stained maple and varnished. The drawer knobs are standard inexpensive wooden cabinet knobs but those for the radio controls have been drilled out to fit the control shafts.

After finishing the spice chest radio I gathered up courage and delivered it to Shirley's mother. I explained the situation and, mercifully, she understood. She actually liked the radio and it was prominently displayed in her new glass enclosed porch. The radio was returned to Shirley on the death of her mother in 1988. In Nov. 2002, after spending 14 years in a box in the garage, I secretly restored it doing the usual replacement of all paper and electrolytic capacitors, checking resistors and tubes and giving the alignment a touch up. I resisted the urge to change the dial pointer to a brighter LED, opting to keep the older technology. The cabinet was cleaned and waxed. It was given to Shirley as a surprise Christmas gift, Dec 2002. It now resides in our glass enclosed porch.







ARMSTRONG'S LABORATORIES: NATIONAL HISTORIC LANDMARK

Philosophy Hall, of Columbia University, New York, was designated a National Historic Landmark in July 2003 by U.S. Secretary of the Interior Gale Norton. The designation "National Historic Landmark" is the highest recognition accorded by the U.S. government to historic places. It is in these laboratories that Edwin H. Armstrong conducted his initial experiments in radio. His most outstanding experiments include the Regenerative or Feedback Circuit of 1912, the Superheterodyne receiver of 1918 (which is still the basis for modern radio, TV and radar reception), the Super-regenerative receiver of 1921 and wide-band Frequency Modulation of 1933. He also developed an FM multiplexing scheme which allows FM stations to simulcast program material over the same frequency. Many changes have been made to the facility in the ensuing years, but Armstrong's personal laboratory has been identified through old photographs. Other labs have also been identified and still others don't exist due to renovations. Many of Armstrong's papers and sketches are on display.

Herman Gross

Comments from the Editor

Ed Dupart

Due to a new job, this will be my last Bulletin. I have had fun doing the Bulletin, but my new job will take all my extra time. Any correspondence will need to be directed to Fred Prohl or Herman Gross. I appreciate all the help that has been given to me. Without the help, the Bulletin wouldn't be what it is!

Please use e-mail or regular postal mail for sending articles and information to Fred Prohl or Herman Gross. If you want to send articles on a 3 ½ or 5 ¼ floppy, that's great, too. Please send computerized pictures in a BMP, JPEG or TIFF format. Pictures can be incorporated with the article done in Microsoft Word or WordPerfect. If you want your pictures and articles returned to you, please let Fred Prohl or Herman Gross know.

RADIOADS

These ads are free to IHRS members. Please limit them to 100 words. Unless we are advised otherwise, we will run ads for two issues. The exception would be where services, etc. are being listed. Please send your ads to the editor at the address shown on page 2.

I'm also offering a postage size picture ad service. It's not guaranteed, but if space permits, I will put it with your ad.

Wanted: Auto radio literature, Delco or United Motors – manuals, bulletins, letters, etc. prior to 1935. Copies are acceptable, leads appreciated. Joe Scott, 7618 Dixie Dr., Houston, TX 77087 Ph. 713-649-7120, email jscott02@coair.com[9-04]

Wanted: 1949 Pilot 3" TV - Parts Set. Charles Mooney, 13018 Midsummer LN. Bowie, MD 20715-3030. (301)464-1624. e-mail: charliemooney@webtv.net [6-04]

For Sale: 1947 Admiral 7T10-C, White, Orig., $35.00; 1932 Aetna mantle, $65.00; Belmont wooden 636, Orig, $40.00; 1932 Courier mantle, Walnut, $65.00; 1924 Crosley Model 51, $115.00; 1931 Crosley 148, $225.00; 1950 Crosley 10-135, $100.00; Emerson 587, Black, $45.00; 1948 Firestone 4-A-61,White, $55.00; 1932 Knight Mantel, $125.00; 1932 International Majestic Mantle, $65.00; 1927 Peerless Speaker, $45.00; 1942 Philco 42-PT95, Walnut, $50.00; 1942 Philco 42-PT95, Walnut, $50.00; 1930 Philco 20, Walnut, $250.00; 1931 Philco 70, Walnut, $345.00; 1947 Pilotuner T601, Walnut, $$35.00; 1924 RCA Radiola III, Mahogany, $150.00; Radiola Power supply, $40.00; 1939 RCA 9TX31, Bakelite, $65.00; RCA 100 speaker, $85.00; Sears mulitmeter, $10.00; 1950 Silvertone 2, White, $65.00; Sentinel Model 309-1, $45.00; Simpson 270 tester, $30.00; 1939 Truetone D-2015, White, $100.00; 1938 Zenith 5R312, Brown, $125.00. 1949 Zenith 7H920, $45.00; 1950 Zenith G725, $35.00 Two sets of working earphones at $20.00 for choice. Everything is in nice condition and works. Most have been re-capped and restored. If interested, call for details. I will deliver to Louisville in August or Lawrenceburg in the fall. All are subject to prior sale. Bill Arnold, Washington, Indiana. Phone 812-254-1702 or email bbarnold@excite.com [6-9-04]

For Sale: New & used tubes. Send a long SASE for list. Contact Ralph Keen, Jr. 1003 Sutton Rd. Greensboro, NC 27406-8812 Phone 336-674-7379 [6-9-04]

For Sale: Photocopies: Manuals for B&K E-200D Sig. Gen, Radiola III, IIIA, 17, 18,25, 60, 100, 100A & 103 and other paper, some original. LSASE or email for list. **Wanted:** Spkr/ OP x'fmr assembly for RCA 5T1. Herman Gross, 1705 Gordon Drive, Kokomo, IN 46902 765-459-8308 Email: w9itt@sbcglobal.net

For Sale: 2 brand new solid state Bogen 35w PA amplifiers in the box, $250 ea. 1 used 100w solid state Bogen PA amp, $200. 1 brand new solid state Radio Shack 20 w portable 12v/120v PA amp, $75. 1 used solid state Radio Shack 20 w portable 12v/120v PA amp, $50. Other misc. solid state amps, call. Brand new Electro Voice microphones, call. Outdoor PA speakers, some new, call. Used resistors, pots and capacitors, some dating back to the 30's, call.
Loren Willis, Box 282 301 S. Plum, Farmland, IN 47340 765-468-8501

Wanted: 21EP4 picture tube - prefer Zenith or Rauland but will take what you have with non scratched face and good emission. State condition and price. Ship or I can pick up. John Foell, 6130 Deer Track Cove, Auburn, IN 46706-9323. (260)-627-0127 evenings, (260)-429-8202-days. Email to John_D_Foell@raytheon.com [12-03]

Wanted: R.F. choke, Zenith part 20-135, for Zenith chassis 1204, as shown in Rider 8—41. Richard Ender, 806 Lee St., Milan, MI 48160. (734) 439-2545

For Sale: Now Available: A replacement for the UV99, our V999R replaces your UV99, our V999 operates the filament on 1.5 VDC. Both use a 5676 proximity fuse, subminiature tube. Our price: $15.00 plus first class shipping. James Fred, 5355 S. 275W, Cutler. IN, 46920, phone (765) 268-2214.

For Sale/Trade: See our new website for beautifully restored radios. Choose from deco tabletop models to gorgeous consoles. Always open to reasonable offers. Check us out at: www.tubularradio.com Actively collecting Zenith and other high-end 30's wooden sets. Bob Snively, Richmond, Indiana Phone; (765) 935-3746 E-mail; totallytubular@aol.com

Wanted: Any information about Marconi No. 3574 receiver (made by "MWTC, Ltd. London") using carborundum, valve, and perikon detectors. Needed for restoration project. George B. Clemans, 851 West Wooster St., Bowling Green, OH 43402. (419) 352-7198, clemans@bgnet.bgsu.edu.
For Sale: Philips Radio tube books. I am currently reducing my stocks of my book "Illustrated History of Philips Radio Valves to 1935" and am offering signed copies to fellow IHRS members for $10 cash including air mail postage. Please reply to Fin Stewart, "Cockerdale", 380 Bulga Rd, Wingham, N.S,W. 2429, Australia.. email address cockerdale@bigpond.com

FOR SALE: Reproduction Philco cathedral cabinet parts and reproduction cabinets for model 20, 21,70, 90. Grandfather clock finials: Philco 570, GE H-91, Crosley 124. Philco Colonial Clock top trim and finials. Rider's Radio Index, 1 through 23 -$20.00 ppd. Books, SASE for list. All plus shipping. Philco cabinets, front panels, see page 22 in Volume 29, #4 the Winter edition. Other parts, inquire. Call or e-mail for details. Note new phone # and address. Dick Oliver c/o Antique Radio Service, 1725 Juniper Place, #3 10, Goshen IN 46526. New phone # (574) 537-3747, e-mail dolivears@aol.com

Wanted: Philco 512 Mandarin Red radio w/212 Red speaker or 514 Nile Green radio with 214 Green speaker or 513 Labrador Grey metal radio with 213 matching grey speaker. I prefer the Red model.
Bob O'Fricl, 7631 Cape Cod Circle, Indianapolis, IN 46250-1844 Phone, (317) 849.4028

Interested in TV history? Want to see how it started? Try this Web site. You'll be amazed how far we've come.
http://pyanczer.home.mindspring.com/Tour Note: all lower case except the upper case "T" in tour.
Pete Yanczer, 635 Bricken Place, Warson Woods, MO 63122-1613

FOR SALE: Federal Book: Limited supply again available. 64 page booklet describes Federal Tel. & Tel. Radio-from the beginning in 1921 to the end in 1929. Over 60 illustrations including pictures of early Federal RF and audio amplifiers as well as all early radios. Many federal parts are pictured and described. The article and speech by Dick Scramberger, the Federal expert, are included. All Federal models are listed with the year and month introduced, cost new, and description. The Federal Broadcast station, WGR first in Buffalo is included. There are two pages of references for more Federal information. This booklet contains more Federal information than exists in any other single spot. Good Quality printing. Please send $7.95 (Including S&H) to Larry Babcock, 8095 Centre Lane, East Amherst, N.Y. 14051

Wanted: MYSTERY SCOPE Any information will be appreciated on a 5-inch 'scope made by Television Equipment Corp, of NYC, model TEC601. This unit is heavy and very well constructed. It appears to be of early 50's vintage (octals and miniatures) and was intended for TV servicing. This is a candidate for a possible fun restoration project.
Harold E. (Hal) Hunt 1209 Canterbury Dr Decatur In 46733 260-724-9700 (leave message) hehunt@adamswells.com

Wanted: Whitley Electronics Murasonde Amplifier, built in Columbia City Indiana in the late 50's early 60's. Also need a large potentiometer (2 1/2 inch diam) used for filament control in early battery receivers (1922.) Knob (1 3/8 inch diam) and brass shaft (½ inch diam). The knob is same as a trimmer control on a Westinghouse RADA.
Fred Prohl (812) 988-1761 email fprohl@att.net

Wanted: I am wondering if any one has a power transformer that can be used in a Grebe—Garod 511. The original unit is mounted above and through the chassis with horizontal laminations (4—1/2" by 3—7/8"). The following specifications are required: ***Primary*** 120VAC, 60CY ***Secondaries*** 860VC1 (approx.) to deliver 430VDC to the filter at 150 MA, 5VAC at 3A ---(5Z3), 2.5VAC at 3A --(two 45's), 6.3VAC at 3A -- (nine 0.3A heaters) Also **Wanted**: I wonder, does anyone have any information on a Thordarson power transformer with the nameplate model No of 5604?. It is a vertical mount, and has HV, 5V and 2.5V secondaries. By "heft", I would guess it is good for about 100VA. This is an older unit, and I believe its revised Model No would be 56R04. Thanks, Harold H. Hunt hehunt@adamswells.com [12-03]

FOR SALE: Photocopies: Hallicrafters 8-22, Zenith 1000-1, Radiola III, 18, 60, 100A, 103, Majestic 52, and other radio, tube, and Test Equipment manuals. Also some Novelty radios. LSASE for list. N.I.B. Western Electric 421A-$55 postpaid.

Wanted: Wood cabinet for Atwater Kent Model 33 receiver.

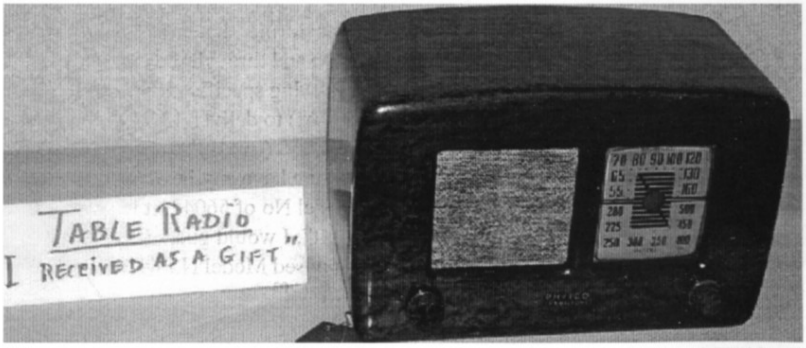
Ray Andrejasich (317) 846-6977.

February 2004 Indianapolis Meet

Contest Results

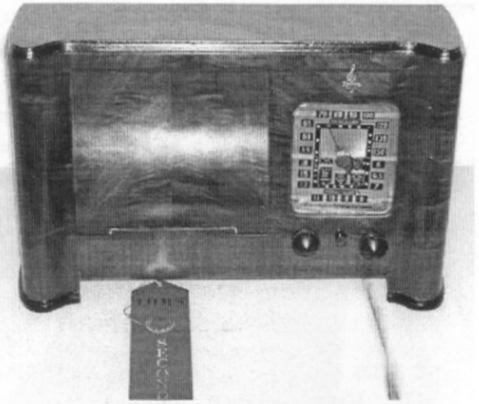
Radio I Received as a Gift 1st Majestic, owned by Greg Armstrong

Radio I Received as a Gift 2nd Steve Starr - Philco



AC/DC Table Radio 1st Jeff Emmick - Zenith

AC/DC Table Radio
2nd Peter Konshak - Emerson



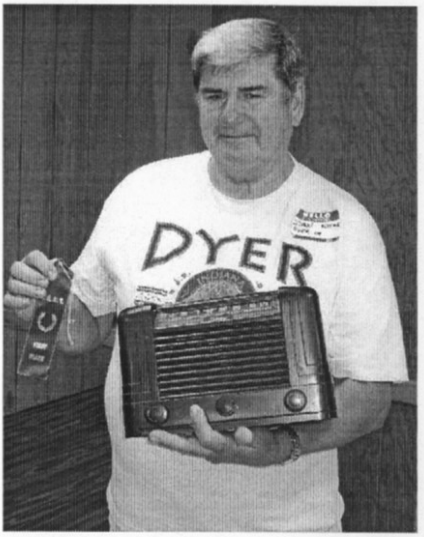
The Registration Table

Elkhart Meet September 11, 2004

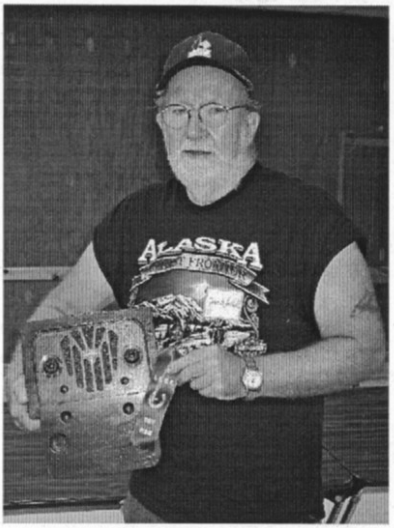
September 11 in northern Indiana and southern Michigan started out with temperatures in the high 40's to low 50's with lots of sunshine and warming into the 70's by mid-day. My kind of weather! Attendance was a little low due to the football game, but next year the meet will be held in August which should remedy that problem. We had lots of food and we all had a good time.

Contest Results

Ed Dupart 1st & Ross Smith Award
Airline $20 and under

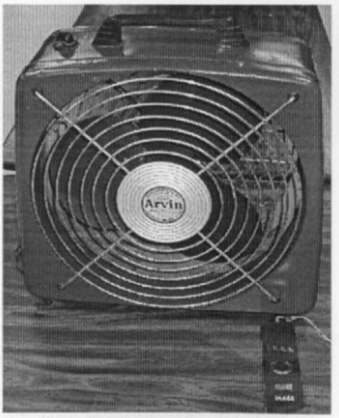


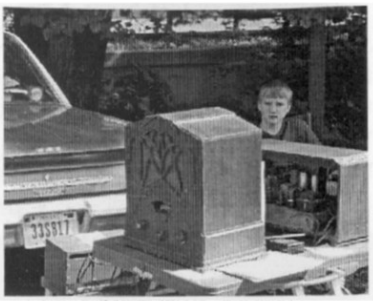
Stan Jurczuck 1st Delco Radio
Indiana made radios



Jack LaVelle
1st Sparton
Tube Type
Radios

Jack LaVelle
1st Arvin Fan
Radio Related





Elkhart September 11, 2004